

SEQUENCE LISTING

<110> Bayer BioScience N.V.
 Greet, Vanderkimpfen
 Gerben, Van Eldik
 Frank, Meulewaeter

<120> Corn root preferential promoters and uses thereof

<130> 021565-119

<150> US 60/399383

<151> 2002-07-31

<160> 32

<170> PatentIn version 3.0

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<211> 378

<212> DNA

<213> Zea mays

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<222> (1)..(338)

<223> promoter

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<222> (339)..(370)

<223> 5' UTR

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aagaggtgat tgggcttcag cgcgcgatcc aaccaagtg ggtccacaa cgtgaacctc 180

atgcagctta aaatacagcc agttgtgac catctgccac agctgtttct acctcagatg 240

tgctacacag tgtattacct gtttctacct cgcagatgtg ctacacagtt gcttatgact 300

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<213> Artificial

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<223> cDNA of GL4 transcript

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<223> n at position 540 represents any nucleotide

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<213> Zea mays

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Val Ala Ile Leu Leu Val Leu Gln Leu Met Ala Ala Pro Pro Thr Ala
          20           25           30

Met Ala Ala Arg Ser Pro Arg Gly Ala Val Pro Asp Gly Ser Leu Ala
          35           40           45

Thr Thr Pro Lys Val Thr Met Leu Ser Ala Thr Leu Cys Tyr Thr Gly
          50           55           60

Glu Thr Cys Lys Tyr Ile Thr Cys Leu Thr Pro Ala Cys Ser Cys Asn
65           70           75           80

Tyr Asp Asp Arg Arg Cys Tyr Ile Ile Phe Thr Pro Ala Ala Ala
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<223> n represents any nucleotide

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<212> PRT

<213> Zea mays

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20          25          30
Ser Pro Arg Gly Ala Val Pro Asp Gly Ser Leu Ala Thr Thr Pro Lys
35          40          45
Val Thr Met Leu Ser Ala Thr Leu Cys Tyr Thr Gly Glu Thr Cys Lys
50          55          60
Tyr Ile Gly Cys Leu Thr Pro Ala Cys Ser Cys Asn Tyr Ser Asp Arg
65          70          75          80
Leu Cys Tyr Ile Ile Phe Thr Pro Val Ala
85          90

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24

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<223> oligonucleotide primer GVK28

<400> 8

gctgcagaac cagcagtatg gccac

25

<210> 9

<211> 27

<212> DNA

<213> Artificial

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<223> oligonucleotide primer GVK29

<400> 9

catgccatgg atcggtagat atatatg

27

<210> 10

<211> 25

<212> DNA

<213> Artificial

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<223> oligonucleotide primer GVK30

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<222> (318)..(58)
<223> 3' nos

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<223> 35S promoter

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<223> 3' end 35S

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<223> corn preferential promoter GL4

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<222> (7263)..(7232)
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